

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Deborah Lamberton Examiner #: 71300 Date: 11/14/02
 Art Unit: 1626 Phone Number 308-4522 Serial Number: 09/886,044
 Mail Box and Bldg/Room Location: CMR03 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

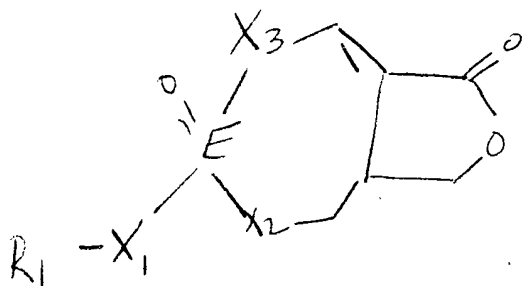
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cyclophosphorus

Inventors (please provide full names): Vertesy et al

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*



$E = \text{phosphorus}$

$X_2 \text{ or } X_3 = \text{O or C, at least one being O}$

STAFF USE ONLY

Searcher: Sheppard

Searcher Phone #: 308-4499

Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: 11/15/02

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: _____

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit _____

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Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

File: hcaplus
 FILE 'HCAPLUS' ENTERED AT 14:49:41 ON 15 NOV 2000
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FILE COVERED: 1967 - 15 NOV 2000 VOL 1-7 INDEX
 FILE LAST UPDATED: 14 NOV 2000 15:11:14Z

This file contains CAS Registry Numbers for easy and accurate substance identification.

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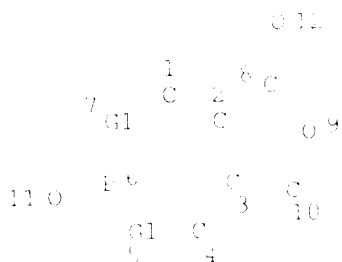
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      C      C      C
7 G1      C      O 9
      6 G4      C      C
      G1      C      3      10
      5      4
  
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VAR G1=O/N/S/CH
 VAR G4=P/S
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
 L12 96 SEA FILE=REGISTRY SSS FUL L11
 L15 STR



VAR C1=O/N/S/CH
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE
 L16 22 SEA FILE=REGISTRY SUB=L12 SSS FUL L15
 L17 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L16

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L17 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:410371 HCAPLUS
 DOCUMENT NUMBER: 137:169939 ✓
 TITLE: Cyclopoitins, novel hormone-sensitive lipase
 inhibitors from Streptomyces sp. DSM 13381: II.
 Isolation, structure elucidation and biological
 properties
 AUTHOR(S): Vertesy, Laszlo; Beck, Bernd; Bronstrup, Mark;
 Ehrlich, Klaus; Kurz, Michael; Muller, Gunter;
 Schummer, Dietmar; Seibert, Gerhard
 CORPORATE SOURCE: L3 Natural Products Research, Germany
 SOURCE: Journal of Antibiotics (2002), 55(5), 430-494
 CODEN: JANTAJ; ISSN: 0021-3820
 PUBLISHER: Japan Antibiotics Research Association
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



- I. 3-K-Me, 3-K-H, 3-K-H
- II. 3-K-Me, 3-K-H
- III. 3-K-H, 3-K-Me
- IV. 3-K-Me, 3-K-H, 3-K-H

AB Hormone-sensitive lipase (HSL) is a key enzyme of lipid metab. and its control is therefore a target in the treatment of diabetes mellitus. Cultures of the Streptomyces species DSM 13381 have been shown to potently inhibit HSL. Ten inhibitors of HSL, termed cyclipostins, have been isolated from the mycelium of this microorganism and a further nine related compds. detected. Their structures were characterized by 2-D NMR expts. and by mass spectrometry and were found to comprise neutral cyclic end phosphate ester with an addnl. gamma-lactone ring. On account of their ester-bound fatty acid side chain, the cyclipostins have physicochem. properties similar to those of triglycerides. The outstanding characteristic of the cyclipostins is their strong anti-HSL activity, with IC50 values in the nanomolar range. The in vitro and in vivo activities of cyclipostins A, P, P2, and S (1.fwdarw.1V) for inhibition are reported.

IT 372083-50-6P, Cyclipostin A 372091-46-8P, Cyclipostin P
372091-94-6P, Cyclipostin P2 372092-03-0P, Cyclipostin S
RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(isolation, structure elucidation, and biol. properties of the hormone-sensitive lipase inhibitors cyclipostins from Streptomyces DSM 13381)

IT 372090-27-2P, Cyclipostin F 372090-93-2P, Cyclipostin N
372091-96-8P, Cyclipostin R 372091-98-0P, Cyclipostin R2
372092-04-1P, Cyclipostin T 372092-05-2P, Cyclipostin T2
RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
(isolation, structure elucidation, and biol. properties of the hormone-sensitive lipase inhibitors cyclipostins from Streptomyces DSM 13381)

IT 372088-34-1P, Cyclipostin A2 372091-95-7P, Cyclipostin Q
372092-36-9P, Cyclipostin B 372092-41-6P, Cyclipostin C
372092-43-8P, Cyclipostin D 372092-44-9P, Cyclipostin E
372092-46-1P, Cyclipostin G 372092-51-8P, Cyclipostin H
447408-07-3P, Cyclipostin Q3
RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(of Streptomyces DSM 13381)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2011 ACS

ACCESSION NUMBER: 2002:368987 HCAPLUS

DOCUMENT NUMBER: 136:380111

TITLE: Cyclipostins, process for their preparation, and pharmaceutical use thereof

INVENTOR(S): Vertesy, Laszlo; Ehrlich, Klaus; Kurz, Michael; Wink,

PATENT ASSIGNEE(S): Joachim
 SOURCE: Germany
 U.S. Pat. Appl. Publ., 18 pp., Cont.-in-part of U. S.
 Ser. No. 947,277.
 COHEN: 13XXXX
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002058645	A1	20020516	US 2001-886044	20010622
DE 10021731	A1	20011115	DE 2000-10021731	20000504
WO 2001083497	A1	20011108	WO 2001-EP4652	20010425

W: AE, AG, AL, AM, AT, AS, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, EE, ES, FI, FR, GB, GR, GU, GM,
 HR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LA, LB, LC, LS,
 LT, LU, LV, MA, MD, ME, MN, MW, MX, MY, NG, NL, NO, PT, RO,
 RU, SE, SG, SI, SK, SL, TC, TM, TR, TT, TZ, UA, UG, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TC, TM
 RW: BH, BM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MD, NL, PT, SE, TR, BF,
 BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: DE 2000-10021731 A 20000504
 WO 2001-EP4652 W 20010425
 US 2001-947277 A2 20010503

OTHER SOURCE(S): MARPAT 136:33(111
 GI

R2
 O
 X3
 O
 E
 R1X1
 X2
 O
 1

AB The invention provides compds. I [R1 = (un)branched (un)satd.
 (un)substituted carb- or heterocyclic C2-30 chain, (un)substituted
 (aryl(CH2)n)m (n, n = 1-3); R2 = (un)substituted C1-6 alkyl,
 (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl; E = P, S;
 X1-X3 = O, NH, H, S, etc.], obtained by culturing Streptomyces species HAG
 004107 (DSM 11381), and their physiol. tolerable salts and chem. equiv.
 The invention furthermore provides a process for the prepn. of the
 cyclipostins, the microorganism HAG 004107 (DSM 11381), the use of the
 cyclipostins and their physiol. tolerable salts and chem. equiv. as
 pharmaceuticals, in particular as inhibitors of lipases and agents for
 treating diabetes, and pharmaceutical preps. which contain cyclipostin or
 a physiol. tolerable salt or equiv. thereof.

IT 372083-50-6P, Cyclipostin A 372088-34-1P, Cyclipostin A2
 372090-27-2P, Cyclipostin F 372090-93-2P, Cyclipostin N
 372091-46-8P, Cyclipostin P 372091-94-6P, Cyclipostin P2
 372091-95-7P, Cyclipostin Q 372091-96-8P, Cyclipostin R
 372091-98-0P, Cyclipostin R2 372092-03-0P, Cyclipostin S
 372092-04-1P, Cyclipostin T 372092-05-2P, Cyclipostin T2
 372092-36-9P, Cyclipostin S 372092-41-6P, Cyclipostin C
 RL: LFN (Biosynthetic preparation); NPO (Natural product occurrence); PAC
 (Pharmacological activity); PUR (Purification or recovery); THU

(Therapeutic use); BIOL (biological study); CONC (concordance); PREP (Preparation); USES (Us-s)
(cyclipestins, fermentative prodn., and pharmaceutical use)

117 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:816678 HCAPLUS
DOCUMENT NUMBER: 135:356841
TITLE: Method for the production of cyclipestins obtained by the cultivation of the Streptomyces species HAG 004107 (DSM 13331) and their use as inhibitors of lipases
INVENTOR(S): Verresy, Lucio; Mallon, Klaus; Ruhl, Michael; Wink, Joachim
PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE: ECT Int. Appl., 6 pp.
CODEN: SIXXDZ
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001063497	A1	200111108	WO 2001-EP4652	20010415
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CP, CU, CZ, DE, DF, DM, EZ, EE, ES, FI, GB, GD, GE, GH, GM, HE, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LF, LE, LS, LI, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PA, PE, PG, PH, PI, PL, PT, PQ, RU, SD, SE, SG, SI, SF, SL, TD, TH, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AA, AB, BY, EG, FZ, HD, HU, IC, TM</p> <p>FW: CH, CN, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GE, GR, IE, IT, LJ, MC, NL, PT, SE, TF, BF, EG, CF, CG, FI, CH, GA, GN, GW, HL, MR, NE, SN, TD, TG</p>				
DE 10021731	A1	20011115	DE 2000-10021731	20000504
US 2002055645	A1	20020516	US 2001-286044	20010612
PRIORITY APPLN. INFO.:				
DE 2000-10021731 A 20000504				
W 2001-EP4652 W 20010415				
US 2001-847277 A2 20010503				
OTHER SOURCE(S): MAEPAT 135:356841				
GI				

O X3 E
E
E1X1 X2

AB The invention relates to compds. I [E1 = straight or branched, (un)sat'd., (un)substituted C2-30-alkyl, cycloalkyl, heterocyclyl; E2 = C1-6-alkyl, C2-6-alkenyl, C2-6-alkynyl; E = P, S; X1, X2, X3 = O, NH, N-, S, CH2, CH2], obtained by the cultivation of the Streptomyces species HAG 004107 (DSM 13331) and to all their stereoisomers and mixts., physiologically compatible salts and chem. equiv. The invention also relates to a method for producing the cyclipestins and their physiologically compatible salts and chem. equiv. as medicaments, in particular as inhibitors of lipases [IC50 = 20 nM {cyclipestin A; 1; E1 = (CH2)11CH(OH)Bu, E2 = Me, E = P, X1 = X3 = O}, 10 nM {cyclipestin E; 1; }, 20 nM {cyclipestin S; 1; R1 = (CH2)15Me, R2 = Et, X1 = X3 = O}, 40 nM {cyclipestin P2; 1; E1 = (CH2)13CHMe2, R2 = Me, E

= P, X1 - X3 = O, vs. hormone-sensitive lipase).

IT 372083-50-6P, Cyclopostin A 372092-36-9P, Cyclopostin B
372092-41-6P, Cyclopostin C

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(Isolation of cyclopostins obtained by the cultivation of the Streptomyces species BAC 00410 for use as inhibitors of lipases)

IT 372088-34-1P, Cyclopostin A 372090-27-2P, Cyclopostin B
372090-93-2P, Cyclopostin B 372091-46-8P, Cyclopostin C
372091-94-6P, Cyclopostin F2 372091-95-7P, Cyclopostin G
372091-96-8P, Cyclopostin K 372091-98-0P, Cyclopostin R2
372092-03-0P, Cyclopostin S 372092-04-1P, Cyclopostin T
372092-05-2P, Cyclopostin T2 372092-43-8P, Cyclopostin D
372092-44-9P, Cyclopostin E

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(Isolation of cyclopostins obtained by the cultivation of the Streptomyces species BAC 004107 for use as inhibitors of lipases)

IT 372092-46-1, Cyclopostin G 372092-51-8, Cyclopostin H

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(Isolation of cyclopostins obtained by the cultivation of the Streptomyces species BAC 004107 for use as inhibitors of lipases)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

117 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:542171 HCAPLUS

DOCUMENT NUMBER: 1996:56671

TITLE: Arisugacins A and B, novel and selective acetylcholinesterase inhibitors from *Penicillium* sp. FO-4259. I. Screening, taxonomy, fermentation, isolation and biological activity

AUTHOR(S): Kuno, Fumiyoshi; Suguro, Kazuhiko; Shioiri, Kazuro; Iwai, Yuzuru; Omura, Satoshi

CORPORATE SOURCE: Research Center Biological Function, The Kitasato Institute, Tokyo, 108, Japan

SOURCE: Journal of Antibiotics (1996), 49(8), 742-747

COMMENT: JANTAU; ISSN: 0021-9320

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal

LANGUAGE: English

AB An in vitro screening method for selective acetylcholinesterase (AChE) inhibitors was established. Inhibitory activity of AChE and butyrylcholinesterase (BuChE) was measured and the culture broths of microorganisms that showed selective inhibition against AChE were characterized. By using this method, a strain producing the novel and selective inhibitors of AChE, arisugacins A and B, was picked out among over seven thousand microorganisms tested. Arisugacins were obtained as white powder from the culture broth together with three known compds., territrem B and C and cyclophenin that also showed selective inhibition against AChE. Arisugacins and territrem are members of the meroterpenoid compds. They showed potent inhibitory activities against AChE with IC50 values in range of 1.0-25.8 nM. Furthermore, they showed greater than 2000-fold more potent inhibition against AChE than BuChE.

IT 144773-26-2P, Cyclopostin

RL: BAC (Biological activity or effector, except adverse); BPN

Phosynthetic preparation; RBC chemical study, unfractionated; RBC chemical study; RBC preparation
 Screening with a color reaction; Laboratory methods

LET ANSWER 1 OF 4 BOXES CORRESPOND TO 1-42

THE UNIVERSITY OF CHICAGO PRESS

DOCUMENT NUMBER: 1415122

TITLE: Antiheliotic NK cell/CD95A, its manufacture with
 drug: mycos, and its structure and a method
 containing NK cell/CD95A

INVENTOR(S): Inaba, Takan; Hayashi, Takumi; Kikuchi, Masaki;
Murai, Akio; Kurokawa, Takashi; Nakamura, Taro

STATEMENT AND SIGNATURE: _____
DATE OF REVIEW: _____

NOTE: GEN. KOKU TOKYO KIN, 1944.

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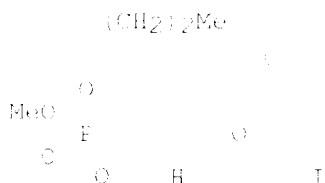
CONCLUSIONS The authors thank the referees for their valuable comments.

FAMILY AC. NUM. VOLUMES : .

REFERENCES

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JF 06066819	A2	19940701	JF 1991-007194	19910725

100



AB Antibiotic NK901093A (I), useful as an insecticide and acaricide, is manufd. by culturing I-producing *Streptomyces* sp. *S. lavendulae* NK901093 (FERM P-11713) was shake-cultured in a medium contg. glycerin, soybean powder, and NaCl at 27.degree. for 2 days, aerobically cultured in the same medium for 1 day, aerobically cultured in a similar medium at 27.degree. for 65 h, filtered, and the filtrate (90 L) was processed to manuf. 36 mg I. I inhibited acetylcholinesterase from houseflies with 50% inhibitory concn. of 1.2 .times. 10⁻⁹M. Formulation examples and physicochem. properties of I and properties of the *S. lavendulae* are also given.

IT 156312-04-8, NK 901093A

FL: BIOL (Biological study)

(acetylcholinesterase-inhibiting insecticide and acaricide, from *Streptomyces lavendulae*)

L17 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:72932 HCAPLUS

DOCUMENT NUMBER: 120:72992

TITLE: Cyclophosphin, acetylcholinesterase inhibitor from
Streptomyces lavendulae

AUTHOR(S): Kurokawa, Takashi; Suzuki, Katsuhiko; Hayaoka, Tatsumi; Nakagawa, Taiso; Izawa, Takeo; Kobayashi, Masuko; Harada, Nobuyuki

CORPORATE SOURCE: Appl. Nipponbiol. Res. Cent., Nippon Kayaku Co. Ltd.,
Ageo, 362, Japan

SOURCE: *Journal of Antibiotics* (1993, 46, 6), 1315-16

CODEN: JANTAJ; ISSN: 0021-8820

DOCUMENT TYPE: Journal
LANGUAGE: English

AB In the course of screening program for natural insecticides of microbial origin, the authors isolated a new product, cyclophostin (I), from *Streptomyces lavendulae* strain NK901093 as a strong inhibitor of acetylcholinesterase. I showed one of the strongest inhibitory activity values for the acetylcholinesterase of houseflies: 150-7.6 .times. 10⁻¹⁰M. The authors report were the isolation and structure of compd. I including its abs. stereochem. I is probably the same as TAN-1139, a compd. disclosed in the Japanese patent literature but whose structure has not been previously described.

IT 144773-26-2, Cyclophostin

RE: BIOL (Biological study)

(acetylcholinesterase inhibitor, from *Streptomyces lavendulae*, isolation and structure of)

L17 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1993:2472 HCAPLUS

DOCUMENT NUMBER: E18:2472

TITLE: Fermentative preparation of antibiotic NK901093 as insecticide and miticide.

INVENTOR(S): Kurokawa, Takashi; Hayaoka, Tatsumi; Izawa, Takeo; Kobayashi, Masuko; Kiriwara, Shigeki; Nakagawa, Taizo

PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Kaho, 10 pp.

COEN: JXXXXF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY APP. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04145339	A2	19920519	JP 1990-266451	19901005

GI

Ne C

MeC O

P

O

I

I

AB NK901093 (I) is prepd. with *Streptomyces* as an insecticide and acaricide. I showed IC50 of 2.5 .times. 10⁻⁹M against acetylcholine esterase, vs. 3.2 .times. 10⁻⁶M for malaoxon and killed 100% *Culex pipiens* larvae at 0.1 ppm.

IT 144773-26-2P, NK 901093

RE: BNF (Bioindustrial manufacture); BIOL (Biological study); PREP

(Preparation)

manuf. of, with *Streptomyces*, as insecticide and miticide)

L17 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1965:74348 HCAPLUS

DOCUMENT NUMBER: G:74348

ORIGINAL REFERENCE NO.: G:131774-e

TITLE: Synthesis and chemistry of phospholes

AUTHOR(S): Campbell, I. G. M.; Cookson, R. C.; Hocking, M. B.; Hughes, A. N.

CORPORATE SOURCE: Univ. Southampton, UK

SOURCE: J. Chem. Soc. (1965), (March), 1134-43
 DOCUMENT TYPE: Journal
 LANGUAGE: English

For diagram(s), see printed 'A' Issue.

AB The prepn. and properties of some phosphates (phosphoryl-pentadecylphosphate) are described. The product of the reaction of 1,1,5-triphenylphosphole with CH₃OH is shown to be a cyclic phosphate deriv. (I), but the reaction of the phosphole with hexamonoacetate yields a compound (II) in which the ring extended structure (III) cannot be ruled out completely. IR, Raman spectra were determined in both these structures, and some interesting differences are consistent with a ring being present and confirmed.

[illegible]

LET ANSWER 9 OF 9 BCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1965: 14 241 REVISED

DOCUMENT NUMBER: 62:74:447

ORIGINAL REFERENCE NO.: 62-157272-3

TITLE: Phosphatidyls. III. Synthesis of a phosphonic acid analog of L- α -(distearoyl)lecithin

AUTHOR (S): F. J. Beck, R. J. Smith, S. J. Anderson, M. J. Griffin

CORPORATE SOURCE: Univ. Toronto, Can.

[illegible]
$$S_{\text{eff}} = \int d^4x \sqrt{-g} \left[\frac{1}{2} R - \frac{1}{2} (\partial_\mu \phi)^2 - V(\phi) \right] + \int d^4x \sqrt{-g} \mathcal{L}_m$$

DOCUMENT TYPE: Journal

LANGUAGE: English

AB of. CA 62, 27925. The phosphonic acid analog of L-.alpha.-
(distearoyl)lecithin was obtained via the following series of
intermediates: di-Et 2-bromoethylphosphonate .fwdarw. 2-
bromoethylphosphonic acid monoanilinium salt, m. 150-51.5.degree.
(decompn.) sintering at 132.degree. .fwdarw. 2-bromoethylphosphonic acid,
m. 95-5.degree. .fwdarw. 2-bromoethylphosphonic acid monochloride .fwdarw.
distearoyl-L-.alpha.-glyceryl(2-bromoethyl)phosphonate (I). I with NMe3 in
EtONMe2 gave distearoyl L-.alpha.-glyceryl(2-trimethylammoniummethyl)phospho-
nate m. 198-202.degree., sintering at 195.degree. [.alpha.]25D)
6.9.degree. (c 3.4, 3:2 vol./vol. EtOH-free CHCl3-MeOH).

IT 1256-02-6, 3-Phosphabicyclo[3.2.0]hept-1(5)-ene-6,7-di-carboxylic
anhydride, 1,3,4-triphenyl-, 3-oxide
(prepn. of)

$$= \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

=> fil caold

FILE 'CAOLD' ENTERED AT 14:49:59 ON 15 NOV 2002

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907-1960

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTER file. Enter HELP FIRST for

more information.

116 116

116 116

116 ANSWER 1 OF 1 (CACHED) COPYRIGHT 2002 ACS
 RN 447408-07-3 REGISTRY
 CN 1E,6H-Furo[3,4-c][1,3,2]dioxaphosphopin-6-ene, 5,8a-dihydro-3-methyl-3-
 [(14-methylhexadecyl)oxy]-, 3-oxide, (3E,8aR)-rel- (9CI) (CA INDEX NAME)
 B12, B12, B12, B12, B12, B12
 1049-82-6 1049-82-6 1049-82-6 1049-82-6 1049-82-6 1049-82-6
 1045-11-0 1045-11-0 1045-11-0 1045-11-0 1045-11-0 1045-11-0
 1169-87-9 1169-87-9 1169-87-9 1169-87-9 1169-87-9 1169-87-9
1256-02-6 1475-80-5 1475-81-6 1609-67-2 1609-68-3
 1639-70-7 1641-62-9 1641-63-0 1641-64-1 1641-65-2 1641-66-3
 2141-46-2 2307-70-7 2357-69-8 2415-90-1 2857-91-2 2857-92-3
 3272-64-1 6886-94-8 7362-34-7 73294-90-3 95164-72-0 95263-18-6
 106862-03-1

=> fil reg
 FILE 'REGISTRY' ENTERED AT 14:50:14 ON 15 NOV 2002
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 14 NOV 2002 HIGHEST RN 473658-67-2
 DICTIONARY FILE UPDATES: 14 NOV 2002 HIGHEST RN 473658-67-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d ide car. 116 tot

116 ANSWER 1 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 447408-07-3 REGISTRY
 CN 1E,6H-Furo[3,4-c][1,3,2]dioxaphosphopin-6-ene, 5,8a-dihydro-3-methyl-3-
 [(14-methylhexadecyl)oxy]-, 3-oxide, (3E,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclipostin Qo
 FS STEREOSEARCH
 MF C24 H43 O6 P
 SR CA
 LC STN Files: CA, CAPLUS

relative stereochemistry.
 Currently available stereo shown.



1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

L16 ANSWER 2 OF 22 REGISTRY COPYRIGHT 2002 ACS

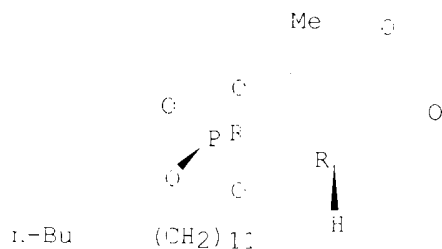
FN 3/2092-51-8 REGISTRY

CN 18,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-5-methyl-3-
 [(12-oxohexadecyl)oxy]-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclipostin H
 FS STEREOSEARCH
 MF C13 H39 O7 P
 SR CA
 LC STN Files: CA, CAPLUS

relative stereochemistry.
 Currently available stereo shown.



2 REFERENCES IN FILE CA (1962 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 135:356841

L16 ANSWER 3 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372092-46-1 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-5-methyl-3-[(13-oxohexadecyl)oxy]-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclipostin D

ES STEREOSEARCH

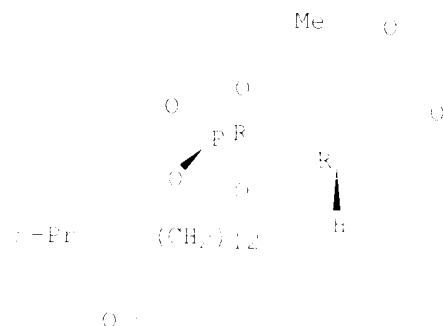
MF 123 H41 07 P

SS CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.

Currently available stereo shown.



2 REFERENCES IN FILE CA (1962 TO DATE)

2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165919

REFERENCE 2: 135:356841

L16 ANSWER 4 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372092-44-9 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(16-hydroxyhexadecyl)oxy]-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclipostin E

ES STEREOSEARCH

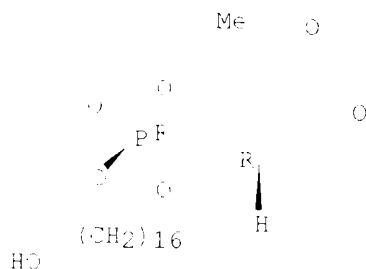
MF 123 H41 07 P

SS CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.

Currently available stereo shown.



2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 135:356841

L16 ANSWER 5 OF 22 REGISTRY COPYRIGHT 2002 ACS

EN 372092-41-6 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(14-hydroxyhexadecyl)oxy]-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

EN Cyclipostin I

ES STEREOSEARCH

MF C23 H41 O7 P

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.
Currently available stereo shown.



2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 135:356841

L16 ANSWER 6 OF 22 REGISTRY COPYRIGHT 2002 ACS

EN 372092-41-6 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(14-hydroxyhexadecyl)oxy]-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

EN Cyclipostin C

ES STEREOSEARCH

MF C23 H41 O7 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

L16 ANSWER 7 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372092-36-9 REGISTRY

CN 1H,6H-Puro[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-8-[(13-hydroxyhexadecyloxy)-5-methyl-, 3-oxide, (3R,8aR)-tetra- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclopostin B

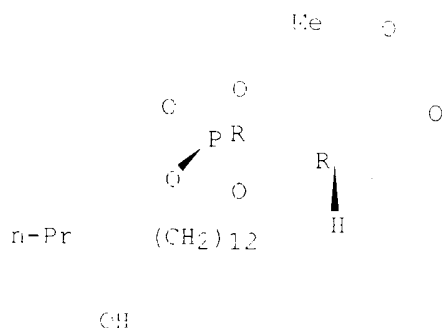
FS STEREOSEAFCH

MF C23 H41 O7 P

SR CA

LC SIN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

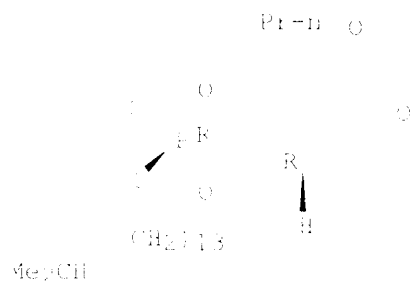
REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

L16 ANSWER 8 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372092-05-2 REGISTRY
 CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(14-methylpentadecyl)oxy]-5-propyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Cyclipostin T2
 ES STEREOSEARCH
 MF C25 H45 O6 P
 IR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
 Currently available stereo shown.

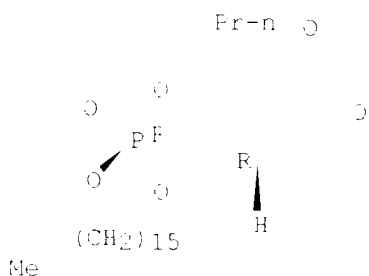


3 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939
 REFERENCE 2: 136:389111
 REFERENCE 3: 135:356341

L16 ANSWER 9 OF 22 REGISTRY COPYRIGHT 2002 ACS
 RN 372092-04-1 REGISTRY
 CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 3-(hexadecyloxy)-8,8a-dihydro-5-propyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Cyclipostin T
 ES STEREOSEARCH
 MF C25 H45 O6 P
 IR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
 Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939
 REFERENCE 2: 136:380111
 REFERENCE 3: 135:356841

L16 ANSWER 10 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372092-03-1 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphopin-6-one, 5-ethyl-3-(hexadecyloxy)-
 8,8a-dihydro-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cycloipostin F

PS STEREOSEARCH

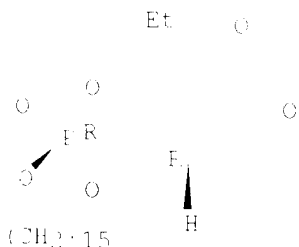
MF C21 H43 O6 P

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, USPATEFULL

Relative stereochemistry.

Currently available stereo shown.



Me

3 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939
 REFERENCE 2: 136:380111
 REFERENCE 3: 135:356841

L16 ANSWER 11 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372091-98-0 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphopin-6-one, 8,8a-dihydro-5-methyl-3-
 [(13-methyltetradecyl)oxy]-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cycloipostin F2

PS STEREOSEARCH

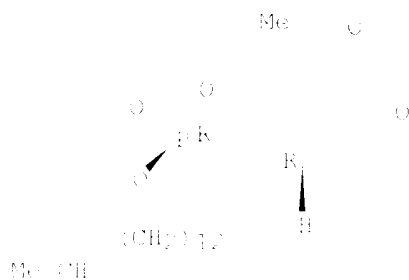
MF C22 H39 O6 P

SR CA

LC STN Files: CA, CAPLUS, USPATEFULL

Relative stereochemistry.

Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

116 ANSWER 12 OF 22 REGISTRY COPYRIGHT 2002 ACS

IN 372091-96-8 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-5-methyl-3-(pentadecyloxy)-, 3-oxide, (3k,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cycloipostin k

ES STEREOSEARCH

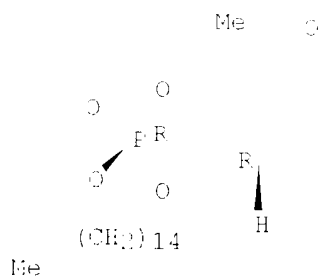
MF C22 H39 O6 P

SR CA

SC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.

Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

116 ANSWER 13 OF 22 REGISTRY COPYRIGHT 2002 ACS

IN 372091-95-7 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 3-(heptadecyloxy)-8,8a-dihydro-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

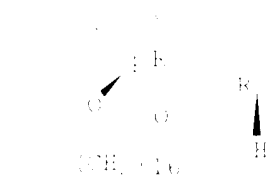
OTHER NAMES:

CN Cycloipostin q

PN STEREOSEARCH
 MF C14 H43 O6 F
 JR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
 Currently available stereo shown.

Me O



Me

3 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 130:165939

REFERENCE 2: 130:380111

REFERENCE 3: 135:356841

L16 ANSWER 14 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372091-94-6 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphopin-6-one, 8,9-dihydro-5-methyl-3-
 [(14-methylpentadecyl)oxy]-, 3-oxido, (3R,5R)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclipostin P2

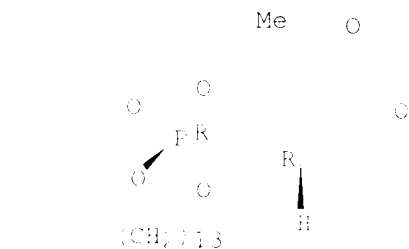
FS STEREOSEARCH

MF C23 H41 O6 F

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
 Currently available stereo shown.



Me2Ch

3 REFERENCES IN FILE CA (1962 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

L16 ANSWER 15 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372091-46-8 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 1-(hexadecyloxy)-8,8a-dihydro-1-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclopostin P

ES STEREOSEARCH

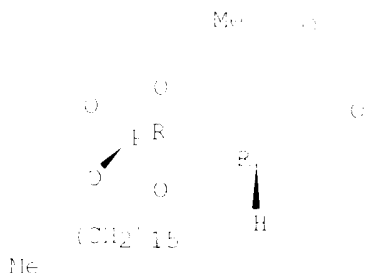
MF C25 H41 O4 P

SR CA

IC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.

Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:383111

REFERENCE 3: 135:356841

L16 ANSWER 16 OF 22 REGISTRY COPYRIGHT 2002 ACS

RN 372093-93-2 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-5-methyl-3-(tridecyloxy)-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclopostin N

ES STEREOSEARCH

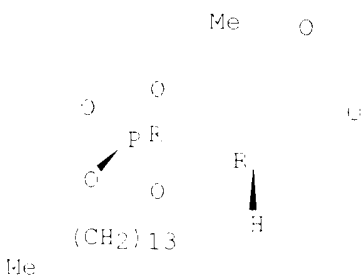
MF C21 H37 O4 P

SR CA

IC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.

Currently available stereo shown.



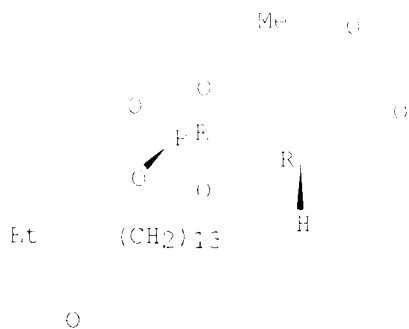
3 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939
REFERENCE 2: 136:380111
REFERENCE 3: 135:356841

L15 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2002 ACS
RN 372090-23-2 REGISTRY
TI 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(12-hydroxy-14-oxohexadecyloxy)-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Cyclosporin F
PS STEREOSEARCH
MF C23 H39 O7 P
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
Currently available stereo shown.

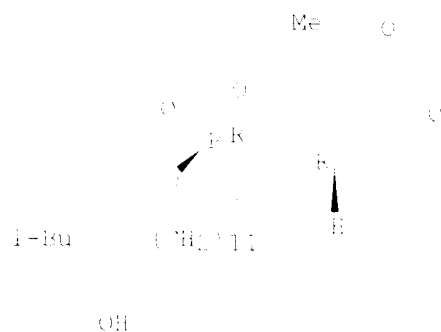


3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939
REFERENCE 2: 136:380111
REFERENCE 3: 135:356841

L16 ANSWER 18 OF 22 REGISTRY COPYRIGHT 2002 ACS
FN 372088-34-1 REGISTRY
CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(12-hydroxy-14-methylpentadecyl)oxy]-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Cyclosporin A2
PS STEREOSEARCH
MF C25 H41 O7 P
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.
Currently available stereo shown.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

116 ANSWER 19 OF 22 REGISTRY COPYRIGHT 2002 ACS

FN 3'2083-50-6 REGISTRY

CN 1d,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-[(12-hydroxyhexadecyl)oxy]-5-methyl-, 3-oxide, (3R,8aR)-rel- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Cyclopostin A

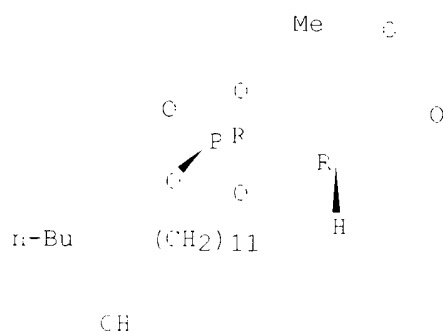
PS STEERSEARCH

MF C13 H41 O7 P

PR CA

SC STN Files: CA, CAPLUS, USPATFULL

Relative stereochemistry.



3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:165939

REFERENCE 2: 136:380111

REFERENCE 3: 135:356841

116 ANSWER 20 OF 22 REGISTRY COPYRIGHT 2002 ACS

FN 196312-04-8 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-methoxy-5-propyl-, 3-oxide, (3R,8aR)- (9C1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-methoxy-5-propyl-, 3-oxide, (3R-cis)-

OTHER NAMES:

CN NK 901093A

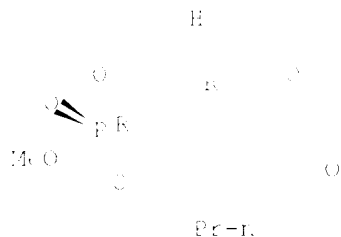
PS STEREOSEARCH

MF C10 H15 O6 P

PI CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 1:1:91134

125 ANSWER 21 OF 22 REGISTRY COPYRIGHT 2002 ACS

PI 144773-26-2 REGISTRY

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-methoxy-5-methyl-, 3-oxide, (3R,8aR)- (9C1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H,6H-Furo[3,4-e][1,3,2]dioxaphosphepin-6-one, 8,8a-dihydro-3-methoxy-5-methyl-, 3-oxide, (3R-cis)-

OTHER NAMES:

CN Cyclophostin

CN Cyclophostin (antibiotic)

CN NK 901093

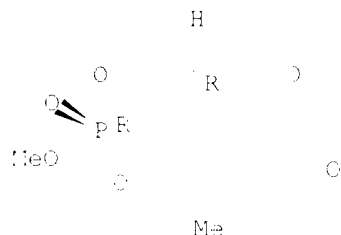
PS STEREOSEARCH

MF C8 H11 O6 P

PI CA

LC STN Files: BIOSIS, CA, CAPLUS, MEDLINE

Absolute stereochemistry.



3 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 125:265671

REFERENCE 2: 12:13896

REFERENCE 3: 11-11471

116 ANSWER 12 OF 70 REGISTRY COPYRIGHT, U.S. ACO
 AN 11-6-61-6 REGISTRY
 ON 8-Phosphatidylcholine (1,3-bis(sn)-3'-phosphatidyl-2-glycerol), 1-3-bis(sn)-3'-phosphatidyl-2-glycerol,
 1,3-bis(sn)-3'-phosphatidyl-2-glycerol, 1,3-bis(sn)-3'-phosphatidyl-2-glycerol, 1,3-bis(sn)-3'-phosphatidyl-2-glycerol,
 ET 11-6-61-6
 ME 11-6-61-6
 117 11-6-61-6

11-6-61-6

11-6-61-6

11-6-61-6

- 1. REFERENCES IN FILE 11-6-61-6, DATE
- 2. REFERENCES IN FILE 11-6-61-6, DATE
- 1. REFERENCES IN FILE 11-6-61-6, DATE

REFERENCE 1: 62:74348

REFERENCE 2: 62:74347